

LEDCube-HDR-5

Any SPD Simulator

LEDCube is an illuminator that simply and accurately simulates any lighting environment, covering a wide range of CCTs and a high dynamic range of luminance. There are 48 channels available for assessing camera quality.



LEDCube-HDR-5	
Digital driving channels	48
LED channels*1	5
Spectral range	420-730nm
LED channel drive method	Amplitude Modulation, AM(default) / Pulse-width modulation, PWM(customized) / AP*2
Resolution*3	12,000 levels (4,000 levels each in high power, medium power and low power modes)
Warm up time	No
LED Lifetime	>10,000 hours
Capacity	80 light source in LEDCube hardware, unlimited in software
Predefined illuminants*4	2000K (Ra>90) 2700 K (Ra>90) 3000 K (Ra>90) 3500 K -(Ra>90) 4100 K (Ra>90) 5000 K (Ra>90) 6500 K (Ra>90) 10000K (Ra>90) or customer specify Sources stored in the hardware can be reprogrammed by software LEDColorLib
Tunable range	CCT : 2000~10000K , tolerance<±100K; Duv : -0.02~+0.02 , tolerance<±0.003 Ra:>90
Max illuminance	The following data refers to one LEDCube-HDR. Higher illuminance can be achieved by using multiple LEDCube-HDRs; All color temperatures (from 2000K to 10000K) have an actual measured illuminance of around 12000 lux at a distance of 1 meter.
Short-term stability*5	Δ CCT<±20K; Δ Luminance <±1% (Not high power) Δ CCT<±100K , Δ Luminance <±5% (High power)
Long-term stability*6	Δ CCT<±50K; Δ Luminance <±2% (Not high power)
Software instrument compatibility	Konica Minolta CL500A&CS-2000, THOUSLITE FS& FS-VIS-IR , Jeti Specbos 1211/1211UV
Electrical	10/230V, 50/60Hz, 1000W
Operating ambient temperature	0-30°C
Connection	USB cable, touch screen controller
Dimensions(L/W/H) & Weight	420×420×260 mm, 390×390(emitting size), 18 kg
Scope of delivery	LEDCube-HDR light source, power cord, USB cable, wireless sender,touch screen controller
Supplementary accessories	Ceiling installation kit, measurement device, customized Munsell N7 viewing cabinet, customized aluminium frame support
Software (optional)	LEDColorLib Windows application; SDK

*1 : The number of LED kinds

*2 : AP is the hybrid driving of AM and PWM. The frequency of PWM is from 0.1 Hz to 1000 Hz.

*3 : Actually 1000 steps can be used because some steps for low luminance calibration.

*4 : Light quality is measured with 80% power

*5 : When set light source as D50 without warm up time under environment temperature 25°, short-term stability is measured during 24 hours and compared to average value.

*6 : When set light source as D50 after 30 minutes warm up time under environment temperature 25°, long-term stability is measured during 90 days and compared to average value.

*7 : Users need to have the compatible instrument for measurements

*8 : Users can utilize the SDK to realized the functions of Dynamic lighting, Single channel control, Single LEDCube control.